Technical Specifications of primary calibration standards for CH₄, N₂O, CO₂ and NH₃:

- 1. Greenhouse gas calibration standard should contain a mixture of ~2000 ppm (99.999% purtiy) of CO₂, ~2 ppm (99.999% purtiy) of N₂O and ~9 ppm (99.999% purtiy) of CH₄.
- 2. Ammonia gas calibration standard should contain ~2 ppm (99.999% purtiy) of NH_3 concentration.
- 3. All primary calibration standards should be balanced with N_2 in a cylinder of 10L water capacity filled with 130 140 bar pressure.
- 4. All primary calibration standards should be balanced with N_2 in a cylinder of 10L water capacity filled with 130 140 bar pressure.
- 5. All primary calibration standards should have National Institute of Standards and Technology (NIST), USA traceability as evidenced through certification of the gas standards.
- 6. Compatible pressure regulators for the aforementioned cylinders with following specifications:
 - a) Inlet Connection Valve: CGA 705, Outlet Connections should be 1/4" NPT F, Diaphragm Hastalloy (C- 276).
 - b) Inlet Pressure Range: 150 bar and Outlet Pressure Range: 0-8 bar.
- 7. The pressure regulators should have certification of analysis for inertness to abundant gases in the atmosphere such as oxygen.